



Machine designation

**EM 80 / 55
EM 80 / 60 US**

Weight	to	5.9
	US tons	6.50
Length	mm	3940
	inches	155.12
Height	mm	2120
	inches	83.46
Total power	kW	23 / 23
	hp	30.8 / 30.8
Connected current ¹	A	38 / 38
	Standard / High	

1. At voltage 3x400V, 50Hz

Size designation ¹		80/...			
		Standard		High	
Screw diameter	mm	18	22	18	22
	inches	0.71	0.87	0.71	0.87
Screw stroke	mm	100	100	100	100
	inches	3.94	3.94	3.94	3.94
Injection capacity	cm ³	25	38	25	38
	in ³	1.53	2.32	1.53	2.32
Screw speed	min-1	400	400	400	400
	rpm				
L/D ratio (3-zone screw)	L/D	22,5	18,7	22,5	18,7
Recovery rate (3-zone screw) ²	g/sec	3.1	6.6	3.1	6.6
	oz/sec	0.11	0.23	0.11	0.23
L/D ratio (barrier screw)	L/D	-	-	-	-
Recovery rate (barrier screw) ³	g/sec	-	-	-	-
	oz/sec				
Injection rate	cm ³ /sec	41	61	66	98
	in ³ /sec	2.50	3.72	4.03	5.98
Injection pressure (regenerative)	bar	2200 ⁴	2000	2200 ⁴	2000
	psi	31907 ⁴	29007	31907 ⁴	29007
Nozzle stroke	mm	225	225	225	225
	inches	8.86	8.86	8.86	8.86
Nozzle contact force	kN	28	28	28	28
	US tons	3.14	3.14	3.14	3.14
Heating wattage	kW	5.45	5.45	5.45	5.45
	hp	7.3	7.3	7.3	7.3
Number of heating zones incl. nozzle		4	4	4	4
Hopper capacity	l	34	34	34	34
	lbs	37.5	37.5	37.5	37.5

1. Injection capacity [cm³] x Injection pressure max. [bar] / 1000

2. Werte für Polystyrol (nach ENGEL Werksnorm ETR 10100), abhängig vom Material und Verarbeitungsbedingungen

3. Values for HDPE (according to ENGEL factory standard ETR 10100)

4. Injection pressure limited